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Approved: Jack Curtis	Date: 9/12/03	Title: ACU RADIO APPLICATION NOTES					
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APPLIES TO: Motorola MCS-2000 800 MHz Mobile Radio

Motorola MCS-2000 UHF Mobile Radio Motorola MCS-2000 VHF Mobile Radio

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING:

1. The radio should be programmed to the lowest programmable power range.

2. The "Microphone Off-Hook PL" disable function must be turned off using the programming software to allow the radio to transmit and receive PL tones. Under "Conventional Configuration" set "Hub Defeats PL" to Disable (no check mark in the feature selection block).

RADIO CONTROLS:

1. The Volume Control setting has no effect on the level of receive audio to the ACU-1000.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable JPS P/N 5961-291156 (5961-271156 + 5961-261002-00) ACU-T Interface Cable JPS P/N 5961-281156 (5961-271156 + 5961-281013-00)

TRP-1000 Shelf Interface Cable JPS P/N 5961-271156

RF Connector Type Mini-UHF

DSP JUMPERS:

JP1 Hi Impedance – (See notes)
JP2 Unbalanced – (See notes)

DSP PROGRAMMING:

RX Level	4	-4dBm - (See notes)

TX Level 6* 0dBm* Squelch Type VOX*

COR Polarity Active Low*

High Frequency Equalizer 5 +2dB
RX Audio Delay 2* 100 ms*
TX Audio Delay (Radio Type) 0* No Delay*
Noise Reduction Value 0* Off*
VOX/VMR Threshold 1* Med1*

3* VOX/VMR Hang Time 775 ms* COR Inhibit After PTT 1* 100 ms* All Others As needed (* Indicates Default Value) **NOTES:** If the DSP Jumpers are left in the default positions (Lo Impedance and Balanced), the RX Level must be set at 7.

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